

In the Specification:

Kindly amend the paragraph beginning on page 1, line 16 as set forth below:

Programming a telephone's ringing tone has been taught in United States Patent Number 6,094,587 issued to Armanto et al. on July 25, 2000, assigned to assignee of the present invention[. Said patent]], which is incorporated herein by reference. In Armanto et al., the ring tone is sent to a mobile station in the form of a ring-tone message including an identifier identifying the message as a ring tone. Upon reception, the ring-tone message is identified on basis of the ring-tone message identifier. The ring-tone message [[it]] is then modified into a suitable form for a ring-tone generator and memory. The ring tone may be sent as characters in a short message such as Short Message Service (SMS), Unstructured Supplementary Service Data (USSD), or by means of an off-line infrared link, e.g., of Inferred Data association (IrDa) type.

Kindly amend the paragraph beginning on page 2, line 6 as set forth below:

This situation does not provide the capabilities for a consumer to browse a selection of ring tones. Furthermore, each SMS or the like message may result in a charge to the consumer, even if the ring tone [[is]]does not suit the consumer. Examples of message billing are provided by International Application Number PCT/FI99/00935, published on May 18, 2000, assigned Publication Number WO 00/28746 entitled MESSAGE COMMUNICATION CHARGING (assigned United States Serial Number 09/850,036 and International Application Number PCT/FI98/00474, published on December 10, 1998, assigned Publication Number WO 98/56202

entitled BILLING MOBILE TERMINATED SHORT MESSAGES (assigned United States Serial Number 09/545,119). All ~~[[said]]~~the patent applications are assigned to ~~[[a]]~~related entities of the assignee of the present invention and are incorporated herein by reference.

Kindly amend the paragraph beginning on page 2, line 26 as set forth below:

Recent advancements in web protocols have resulted in the creation of the Wireless Application Protocol (WAP). WAP solutions using Handheld Device Markup Language (HDML) or Wireless Markup Language (WML) allow web content to be adapted for use on narrow bandwidth and limited screen size handheld devices such as mobile stations. Mobile station ~~[[manufactures]]~~manufacturers are embedding high-value added applications such as WAP compliant microbrowsers in their mobile stations that allow the mobile stations to function as a client for services and content from the Internet through a wireless portal. Microbrowsers may be logic in the form of software or firmware embedded in the end user device that enables the device to interact with a gateway on a network. Examples of microbrowsers are the Nokia Microbrowser, ~~[[as shown in Appendix A--]]~~herein incorporated by reference and UP.Browser from Openwave, previously known as Phone.com (Redwood City, California; www.phone.com)). A style guide for HDML may also be obtained from ~~[[www.phone.com]]~~ Openwave and other sources and is incorporated herein by reference.

Kindly amend the paragraph beginning on page 4, line 1 as set forth below:

A novel system to deliver and reproduce personalizing ringing tune data or other such multimedia content to a wireless handset's WAP browser is provided. Additionally, a novel system is provided that allows a consumer to preview the multimedia content (e.g. ring tune) and either approve or decline being billed for ~~[[said]]~~the particular multimedia message content. The consumer may also receive credit for accepting advertising content. The user requests media content by sending a message with a header comprising an identification number, the user then receives a message which comprises the media content and a Universal Resource Locator (URL), upon accepting the media by saving ~~[[said]]~~the media in a non-volatile memory; a ~~[[primitive]]~~primitive is generated based on the URL. This is incorporated in a message and sent to an accounting server.

Kindly amend the paragraph beginning on line 1 of page 6 as set forth below:

The invention may be used in radio systems which provide for a browser. The examples describe the use of the invention in a Universal Mobile Telecommunication System (UMTS) utilizing a broadband code division multiple access (CDMA), (TDMA), method implemented with any WAP or the like, yet without restricting the invention thereto.

Kindly amend the paragraph beginning on page 6, line 5 as set forth below:

SMS has ~~[[evolve]]~~evolved to include mobile multimedia. Multimedia Message Service (MMS) includes images, audio, video, data, and text or ~~[[combination]]~~combinations thereof.

Kindly amend the paragraph beginning on page 7, line 1 as set forth below:

Narrow-Band Sockets Specification, Revision 1.0, March 7, 1997 may be downloaded from Nokia Forum~~[[the URL www.forum.nokia.com]]~~ as can a white paper entitled Narrowband Sockets; which are directed to a~~[[A]]~~ wireless messaging protocol and API for enabling AOAC mobile communications. Both specification and white paper are incorporated herein by reference.

Kindly amend the paragraph beginning on page 7, line 5 as set forth below:

Sending messages including graphics is taught by International Patent Application Number PCT/EP00/02370 published on September 28, 2000, as Publication Number WO 00/57617. ~~The~~~~[[Said]]~~ international application is assigned to assignee of the present application~~[[. And]]~~ and is incorporated herein by reference.

Kindly amend the paragraph beginning on page 8, line 10 as set forth below:

The display may also be a virtual display such as is provided by MicroVision (Seattle, Washington). The display may also be the housing of mobile station 100 using electronic ink from E Ink Corporation ([\[\[www.eink.com;\]\]](http://www.eink.com;) Cambridge, [\[\[Massachusett.\]\]Massachusetts](#)), and Lucent Technologies' (Cambridge, [\[\[Massachusett\]\]Massachusetts](#)) active-matrix drive circuits printed on plastic. The special inks consist of nanometer-sized semiconductor particles such as those developed by Joseph Jacobson et al. Attention is directed to U. S. Patent Nos. 5,930,026; 5,961,804; 6,017,584; 6,072,716; 6,118,426; 6,120,588; 6,120,839; and 6,130,773, all of which are herein incorporated by reference. The work on this technology has been conducted at MIT, and more recently at E Ink.

Kindly amend the paragraph beginning on page 8, line 19 as set forth below:

Mobile station 100 may also be provided with an interface to allow the audio of the mobile station including the ring tunes to be play over an existing audio system. Such an interface is provided by United States Patent Number 6,163,711 entitled METHOD AND APPARATUS FOR INTERFACING A MOBILE PHONE WITH AN EXISTING AUDIO SYSTEM issued on December 19, 2000 to Juntunen et al and assigned to assignee of the present application, which [\[\[. Said patent\]\]](#) is incorporated herein by reference. This provides for a better speaker system which will allow for the playing of polyphonic tunes.

Kindly amend the paragraph beginning on page 8, line 26 as set forth below:

Mobile station 100 also may have infrared transceiver 150 or other means of local data transfer so that data may be shared with other devices such as other mobile stations, car guidance systems, printers and the like. The sharing of data may also be provided by a Radio Frequency IDentification (RFID) transponder tag that is known to those in the art as a means for local data transfer. Mobile station 100 may also include a charge couple device or other such image capture device. Another means for sharing data is provided by Bluetooth. Information regarding Bluetooth can be found at www.bluetooth.com.

Kindly amend the paragraph beginning on page 9, line 4 as set forth below:

Details on WAP architecture and specifications are available from the WAP Forum [[located at www.wapforum.org]] and are herein incorporated by reference. The WAP specifications [[provides]]provide for a Wireless Applications Environment (WAE). WAE[[is]] provides a general application environment which builds on the World Wide Web (WWW) model of technologies.

Kindly amend the paragraph beginning on page 9, line 21 as set forth below:

Figure 2 is an illustration of a WAP client. In the preferred embodiment of the present invention, Mobile station is configured as a WAP client. Like most network architecture, WAP is organized as a series of layers. WAP client 200 comprises user agent layer 230, URL & HTTP

layer 240, and protocol layer 250. WAP client 200 of Figure 2 also comprises various Application Program Interfaces (API)s, such as Wireless Applications Environment (WAE API) 210, Platform APIs 215, and Wireless Datagram Protocol (WDP API) 220.

Kindly amend the paragraph beginning on page 9, line 31 as set forth below:

User Agent Layer 230 comprises WML browser 231, WMLScript virtual machine 232 to program a mobile station, and WMLScript libraries 933 that are a set of standard functions. WML browser also referred to as a microbrowser communicates with a gateway using WSP. The gateway communicates with the server using HTTP.

Kindly amend the paragraph beginning on page 10, line 3 as set forth below:

URL & HTTP Layer 240 comprises URL Loader 941, HTTP Loader 242, and cache 243.

Kindly amend the paragraph beginning on page 10, line 19 as set forth below:

User Agent (UA) Level comprises the core of the browser 310, namely, WML Interpreter 321, WMLScript Interpreter and standard libraries 322, and Push Subsystem 323. WML Interpreter 321 supports the WML language specification including WBMP image files, an asynchronous image loader, and cookies. WMLScript Interpreter 322 handles encoded WMLScript content and performs operations specified by the content. Libraries include

support for browser and URL handling functions. UA Level interfaces with the UI Level using WML, WMLScript and Push APIs.

Kindly delete the paragraph on page 21 at lines 3 to 5.

Kindly amend the paragraph beginning on page 22, line 8 as set forth below:

Figure 4 which consists of Figures 4A and 4B is a flowchart showing various steps to be taken in accordance with an embodiment of the present invention. Figure 5 is a session diagram showing the flow between the various network entities. The steps ~~[[reference]]~~referenced in Figure 4 are repeated in Figure 5 to show flow from entity to entity.

Kindly amend the paragraph beginning on page 22, line 12 as set forth below:

Referring now to Figure 4A and Figure 5, the system starts at step 4000. At step 4010, the user of a device such as a mobile station 100 of Figure 1, (500 in Figure 5), requests a main ring tune deck from a ring tune or media server 530 entering the URL of the media server 530. The URL may also be selected for a pre-stored list of URLs commonly referred to in the art as bookmarks or favorites. In the preferred embodiment, the user may be presented with a special menu on the display when the power-button of the mobile station 500 is depressed. In this case, the URL has already been stored in the mobile station 500 and pressing a selection on this special menu invokes the browser using the stored URL.

Kindly amend the paragraph beginning on page 22, line 23 as set forth below:

Media server 530 may be a server for a copyright clearance provider such as BMI. Media server 530 may be owned by an Internet Service Provider (ISP) or by a carrier network. The media server 530 may also be owned by a record company or copyright clearance provider such as BMI. In the preferred embodiment, the media server is part of the Club Nokia network[[(www.clubnokia.com)]]].

Kindly amend the paragraph beginning on page 22, line 28 as set forth below:

At step 4020, media server 530 has received the requests and delivers a main HDML deck consisting of links that define ring tune or other media categories to the mobile station 500. This is routed through the carrier network 510 via WAP gateway. The categories are presented on display 110 (see Figure 1) of mobile station 500 (100 in Figure 1). See step 4030. User may then choose a category of media at step 4040. For example, the user may be interested in movie tunes/jingles and selects this category. The carrier network routes the request for the category via WAP gateway or the like through the Internet to the media server 530 (step 4050). Again the HTTP header has the MIN of the mobile station.

Kindly amend the paragraph beginning on page 23, line 5 as set forth below:

At step 4060, media server 530 delivers a HDML deck consisting of specific links to the ring tunes based on the category selected by the user in step 4040. Again, in the preferred

embodiment, this is routed by the carrier network 510. At step 4070, the user chooses a specific ring tune. Figure 6A is an example of a typical display to select a tune. The figure shows "5 Austin Powers" as the selection chosen by the user. The list of tunes for this category is shown on display 110 of mobile station 100. The user may use scroll key 130 and softkeys 120A or 120B to make the selection. Alternatively, the user may press the number "5" key 145 to make the selection.

Kindly amend the paragraph beginning on page 23, line 16 as set forth below:

At step 4090, using ASP, media server 530 generates a database record and a transaction number that reflects the specific mobile station 500 request based on time and MIN. The media server 530 sends the tune file and programmatically, (using ASP, JAVA applet and the like), generated reply URL header to [[handset]]mobile station in proper format using specific MIME-type as described above. This is done at step 4100 and is routed by carrier network 510 at step 4110.

Kindly amend the paragraph beginning on page 23, line 22 as set forth below:

At step 4120, the mobile station 500 recognizes the [[mime]]MIME content and passes the data to the mobile station's device layer. The system description continues on Figure 4B. At step 4130 on Figure 4B, the mobile station 500 verifies the data format and stores the file into temporary random access memory (RAM), e.g. memory 180 or cache of processor 170 in Figure 1. The file may include reply URL with transaction number, tune/bitmap data and a label tag.

Kindly amend the paragraph beginning on page 23, line 28 as set forth below:

The user is then prompted via display on the mobile station 500 (step 4140). The user may "back away" and discard the media (step 4143). In this case, the transaction would be terminated and the user will not be billed for the media content. The user may also save without previewing or listen to the ring tune and/or view the image, 4145. At this point, the user is again prompted for a decision, (4140):

Discard (4143);

Listen again (4145); or

Accept the media and continue with the transaction (4147).

Kindly amend the paragraph beginning on page 24, line 4 as set forth below:

Figure 6B shows an example of a typical display showing a choice offered to the user on display 110 of mobile station 100. The display 110 indicates that a new ring tone (or tune) has been received. The user may listen to the tune by pressing softkey 120A or save the tune by pressing softkey 120B.

Kindly amend the paragraph beginning on page 24, line 8 as set forth below:

Referring again to Figure 4B, at step 4150, the mobile station 500 generates a HTTP "GET" primitive using the reply URL stored in RAM[. Thus], indicating

acceptance of the media, (ring tune or image). The carrier ~~[[networks]]~~network 510 routes the acceptance message via a WAP gateway to the media server 530 (step 4160). The HTTP header contains the mobile station's MIN.

Kindly amend the paragraph beginning on page 24, line 13 as set forth below:

Media server 530, at step 4170, locates the record using information from the message such as the transaction number, the MIN, or a combination of information. Media server 530 generates a usage record and transmits same to the carrier which may ~~[[stored]]~~store the transaction on accounting server 540. In another embodiment, the media server 530 may also ~~[[server]]~~serve as ~~[[a]]~~an accounting agent. However, in the preferred embodiment the carrier bills the user through an invoice to the user including other debits or credits for service and content.

Kindly amend the paragraph beginning on page 24, line 20 as set forth below:

Having the carrier handle the accounting allows for small transactions which may include fractions of cents to be combined with other charges for convenient billing/crediting and payment. The carrier ~~[[made]]~~may perform the accounting "in-house" or they may rely on accounting agents or other 3rd parties who have developed accounting systems. Examples of such systems are Lucent's Kenan system (~~[[www.kenan.com;]]~~www.kenan.com;)Cambridge, ~~[[Massachusett]]~~Massachusetts) or Amdocs' Ensemble (~~[[www.amdocs.com;]]~~www.amdocs.com;)Stamford,

Connecticut). Accounting for copyright ~~[[royalties]]~~royalties and other costs associated with content provision may be ~~[[perform]]~~performed by the accounting system.

Kindly amend the paragraph beginning on page 25, line 11 as set forth below:

Instead of a Pull process which has been described herein, wherein the user is pulling the content from the media server, a Push process may be used. As an example, in a Bluetooth enabled mobile station, promoters would be able to offer ring tunes to the user.~~[[Information regarding Bluetooth may be found at (www.bluetooth.com)).]]~~

Kindly amend the paragraph beginning on page 25, line 15 as set forth below:

Referring again to Figure 4B and Figure 5, media server 530, at step 4190, also generates a confirmation reply message to the mobile station 500 using the novel ~~[[mime]]~~MIME-type described above. The carrier network 510 routes this message to the mobile station 500 through a WAP gateway or the like (step 4200).

Kindly amend the paragraph beginning on page 25, line 19 as set forth below:

Upon receipt of the confirmation message, the mobile station 500 will save the media file (tune/bitmap and label) to non-volatile RAM. Figure 6C shows a typical display informing the user that the ring tune has been "Saved." User must ~~[[them]]~~then select the ring tune or image

following the procedure ~~[[provide]]~~provided by the customization features offered by the mobile station 500.

Kindly amend the paragraph beginning on page 25, line 23 as set forth below:

The reply URL may also be stored in non-volatile RAM. The URL may be used to record and report back to the carrier accounting server 540 or media server 530 whenever a tune is played. As described above the playing of a tune may invoke the receipt of digital cash or credit to the user's bill. Figure 7 shows a tone activation sequence 700. If the tone has a reply URL connected with it, a function call 710 may be invoked to activate the WAP browser and report usage of the tone to ~~[[a]]~~the accounting server 540 which may credit the user account. This process may also ~~[[server]]~~serve to account for per use ~~[[royalty]]~~royalty payments for media.

Kindly amend the paragraph beginning on page 25, line 30 as set forth below:

The credits may be maintained on the mobile station 500 itself. Digital cash or transaction credit value information may be stored, e.g. as a code word in mobile station's memory. Digital cash and a method for effecting payments are provided by United States Patent Number 6,078,806 granted on June 20, 2000; which is a continuation of United States Serial Number 08/597,845 filed on February 7, 1996, now Patent Number 5,887,266 granted on March 23, 1999, both entitled METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS, issued to Heinonen et al., assigned to assignee of the present invention and incorporated herein by reference.